

**Commonwealth of Kentucky**  
**Division for Air Quality**  
***EXECUTIVE SUMMARY***

FINAL

Title V, Construction/Operating

Permit: V-08-031

Kentucky State University

Frankfort, KY 40601

March 26, 2009

Massoud Kayvanjah, Reviewer

SOURCE ID: 21-073-00001

AGENCY INTEREST: 1405

ACTIVITY: APE20080002

**SOURCE DESCRIPTION:**

A source wide operating Title V (TV) application for Kentucky State University (KSU) was received on July 25, 2008. Additional information was submitted on August 6, 2008 and August 29, 2008. Currently, the source has an operating permit (O-79-444) for the two coal fired boilers (40 and 20 MMBtu/hr). An 18 MMBtu/hr natural gas indirect heat exchanger was constructed in 1989, and other fourteen small once ranging between 1.2 MMBtu/hr and 3.5 MMBtu/hr installed between 1983 and 2008. The insignificant units at the source include thirty five (35) small space heaters, twelve (12) water heaters, four (4) natural gas fired emergency generators, and six (6) diesel emergency generators.

The source is classified as a Title V, due to its having potential emissions of regulated air pollutants, nitrogen oxides (NO<sub>x</sub>), sulfur dioxide (SO<sub>2</sub>) and carbon monoxide (CO), greater than a major source threshold. This permit contains practically enforceable limit to preclude Section 112(j), of Clean Air Act (CAA). Emissions calculation is based on AP-42 emission factors and units operating hours of 8760 per year, except for the diesel generators whose potential was calculated on 500 hours per year. In addition, KSU is voluntarily taking limit on the hour of operation for the coal boiler to 5000 hours per year, in order to stay below major source the hazardous air pollutant, hydrogen chloride (HCl).

**U.S. EPA REVIEW:**

The U.S. EPA was notified of the issuance of the proposed permit on December 8, 2008 via e-mail. The comment period expired 45 days from the date of e-mail. No comments were received during this period. The permit is now being issued final.